

Remarks

Upon entry of the foregoing amendment, claims 1-4, and 6-11 are pending in the application, with claims 1 and 8 being the independent claims. Claims 1 and 6 are amended by the foregoing amendment, and claims 5 and 12-14 are canceled without prejudice to or disclaimer of the subject matter therein. These changes are believed to introduce no new matter, and their entry is respectfully requested. Based on the above amendment and the following remarks, Applicant respectfully requests that the Examiner reconsider all outstanding objections and rejections and that they be withdrawn.

Rejections under 35 U.S.C. § 103

Claims 1-3, 5, and 12-14 stand rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 6, 512,801 to Ninomiya (hereinafter "Ninomiya") in view of U.S. Patent Publication No. 2002/0039052 to Straub *et al.* (hereinafter "Straub"). Claim 6 stands rejected under 35 U.S.C. 103(a) as being unpatentable over Ninomiya in view of Straub, and further in view of U.S. Patent No. 5,303,258 to Nakamura (hereinafter "Nakamura"). Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ninomiya in view of Straub and further in view of U.S. Patent No. 6,563,383 to Otaka *et al.* (hereinafter "Otaka"). Claims 5, and 12-14

Claim 1 has been amended to include the features of claim 5, namely *a LO correction circuit that is configured to adjust an amplitude level of said output LO signal*. (See, Claim 1, *emphasis added*).

The Office Action alleges that FIG. 2 of Straub teaches the *italicized* feature mentioned above. Specifically, the Office Action alleges that the variable gain amplifiers 273 and 275 teach the *LO correction circuit* recited above. However, upon close inspection, the variable amplifiers 273 and 275 in FIG. 2 of Straub are located at the outputs of the mixers 265 and 263 in the receiver chain, and therefore are variably amplifying the down-converted baseband signal, and not the *local oscillator signal* as recited in the claim 1. (See, Straub, page 4, paragraph 36, " The output of the LPF 269 is provided to the input of a variable *baseband automatic gain control* (BB AGC) amplifier 273. In a similar manner, the LPF 271 asserts its output to the input of another BB AGC amplifier 275", *emphasis added*)

Still referring to Straub, it is the *fixed* amplifiers 238 and 236 that actually amplify the I and Q local oscillator signals produced by the quadrature oscillator 227, and these amplifiers are clearly not variable and therefore cannot operate as an *LO correction circuit* as is recited in claim 1. (See, Straub, page 4, paragraph 35, " The quadrature oscillator 227 asserts the I receive carrier signal (I.sub.R+, I.sub.R-) to another input of the I channel mixer 265 through a *driver* 236 and the Q receive carrier signal (Q.sub.R+, Q.sub.R-) to another input of the Q channel mixer 267 through another *driver* 238", *emphasis added*).

Accordingly, based on the discussion above, Straub clearly does not teach an *LO correction circuit that is configured to adjust an amplitude level of said output LO signal*, as is recited in amended claim 1. Further, the other cited art (Ninomiya, Nakamura, and Otaka) also does not teach this particular feature, nor does the Office Action allege this. Accordingly, the mentioned combination does not teach each and

every feature of claim 1, and therefore does not meet the requirements of *prima facie* obviousness. ((See, MPEP 2131) Claims 2-4, and 6-7 depend directly or indirectly from claim 1 and therefore are allowable for being dependent on an allowable base claim. Claims 8-11 have already been allowed. Claims 5 and 12-14 have been canceled.

Based on the above discussion, Applicant requests that the rejection under 35 U.S.C. § 103 be reconsidered and removed, and that claims 1-4, and 6-11 be passed to allowance.

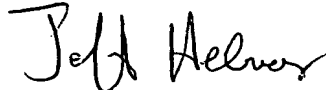
Conclusion

All of the stated grounds of objection and rejection have been properly traversed, accommodated, or rendered moot. Applicant therefore respectfully requests that the Examiner reconsider all presently outstanding objections and rejections and that they be withdrawn. Applicant believes that a full and complete reply has been made to the outstanding Office Action and, as such, the present application is in condition for allowance. If the Examiner believes, for any reason, that personal communication will expedite prosecution of this application, the Examiner is invited to telephone the undersigned at the number provided.

Prompt and favorable consideration of this Amendment and Reply is respectfully
requested.

Respectfully submitted,

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